Work Orde Wednesday, Aug	er ID 73035 ust 24, 2011 2:23:49 PM						NIC) ON	ILY	Page 1
Revision ID:	D3391-023 Mid Tube Assembly		Accept					Setup Stai		
•	8/24/2011 Start Qty: 1.00		 	Cust Item I Customer:	D:				1 18811181 8	410 110 1191 150 1
Approvals:	Process Plan:QC:	Date:	20 Tooling: SPC (Y/N):		nte:		I	Run Stai Sto		
Sequence ID/ Work Center II	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr							,		
D3391	Rev H					•				
100	Skidtubes		0.00				χ			Dl
Skidtubes Skidtubes	Memo	ibe to finish length as per D	0.00 we D3391	1						11/00/10
	$ u_{2\text{-ldenti}} $	fy as D3391-023	o not drill "B" holes) and dr	ill only 1 find					. •	
•	saddle h	sole on one side only as per	Dwg D3391	m omy i iwa \	\					
	4-Open	saddles and GHW holes to	Ø0.375" exept for fwd saddle	e hole of detail)					
	. /	ve .030" from Fwd indexing	g Ridge as per Dwg D3391 a Aft end of skidtube as per I	Owg D3391	H u	100/2	G			
•	✓ 7-Debui	rr					-/			
*	8-Drill #	#30 pilot holes using wearpl arker,	ate Jig DT8217 Identify Ø0)					
	(14 hole		23 assembly detail section O holes in section Detail "J",							
	√10-Oper Ø0.297'		023 assembly detail section g D3391	H-H to						

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Dart Ae	rospace	e Ltd						_	
W/O:			WC	WORK ORDER CHANGES					1 4 -
DATE	STEP	PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No):	PAR #:	_ Fault Cate	gory: N	CR: Yes	No DQ	A:	Date: _	
Resolution:			_ Disposition	n: Q	QA: N/C Closed:			Date: _	
NCR:		W	ORK ORDI	ER NON-CONFORMANC	E (NCR)			
DATE	STEP	Description of NC		Corrective Action Section B		Verific	cation	Approval	Approval
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Wednesday, August 24, 2011 2:23:49 PM

Page 2

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name: Mid Tube Assembly

Required Date: 8/31/2011

Start Date:

8/24/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

A	pprovals:	

Date: _____

Tooling:

Date:

Run

Start

Stop

Date: SPC (Y/N):

Tool # Plan

Accept

Reject

Insp.

Sequence ID/ Work Center ID Operation Description

Set Up/ Run Hours Tool ID

Date:

Code

Qty

Qty

Reject Number

Stamp

11-Open .375" holes to .438" ***do not open fwd saddle holes***

124Locate D3391-021 in D3391-023 at 9.00" (see view z-z)

13- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fixed saddle holes using DT 8149 locating from previously drill .188" dia hole, using t-pins and clicos to ensure perfect allingment, open up previusly tranfer drilled pilot holes in D3391-023/-021 to 0.438" dia. in D3391-021

14- Transfer drill 2 wearplate holes into D3391-021 using DT8217, locating from two previously drifted holes, drill remaining wearplate holes into D3391-021.

15- Locating from two fwd wearplate holes drilol remaining 6 wearplte holes in D3391-021 using DT8937

16- Open 2 fwd wearplate holes in D3391-023 to .250" dia.

17- counterbore two aft wearplate holes in D3391-021 as per dwg

18-Open 12 wearplate holes in D3391-021 to 0.297" dia.

19-Deburr and blow out all chips from inside tube

20-Open holes #2 + #4 of Fwo SADDLE 3 Dl 11/08/29

A3 per BwG. D3391 Section Alpages.

W/O:	WORK ORDER CHANGES					ES ' ' ·					
DATE	STEP	PRO	PROCEDURE CHANGE				Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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DATE	STEP	Description of NC		ion B	Verification				Approval		
		Section A	Initial Chief Eng	Action Description Chief Eng		gn & Date	Section	on C	Chief Eng	QC Inspector	
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Work Order ID 73035 Wednesday, August 24, 2011 2:23:49 PM D3391-023 Item ID: Accept Setup Start **Revision ID:** Stop Mid Tube Assembly Item Name: Start Qty: 1.00 **Start Date:** 8/24/2011 **Cust Item ID:** Required Date: 8/31/2011 Req'd Qty: 1.00 **Customer:** Reference: Start Run Process Plan: _____ Date: Tooling: **Approvals:** Date: _____ Stop SPC (Y/N): QC: Date: Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Accept **Work Center ID** Description Qty **Run Hours** Code Qty 110 QC5- Inspect part completeness to step on W/O ulostas Memo Quality Control

120

130

Chemical Conversion Coat per QSI005 4.1

HandFinish

Hand Finishing

Memo

QC3- Inspect Part Finish

Memo

Quality Control

0.00

0.00

Page 3







Reject

Insp.

Number

Stamp

1 D BL 11/08/30

W/O:			WORK ORDER CHANGES						(,,		
DATE	STEP	PROCEDURE CHANGE			Ву	Da	ite (Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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		PAR #:	Fault Ca	ategory:	NCR: Ye	CR: Yes No DQA: Date:					
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Work Order ID 73035

Wednesday, August 24, 2011 2:23:49 PM



Page 4

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name: **Start Date:**

Mid Tube Assembly

8/24/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

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Αı	pprovals:	

Process Plan:

Date:

Date:

Tooling:

SPC (Y/N):

0.00

0.00

Date: Date:

Run

Start

Stop

Sequence ID/ Work Center ID

Required Date: 8/31/2011

Operation Description

Skidtubes

Set Up/ Run Hours **Tool ID**

Tool # Plan Code

Accept Qty

Reject Reject Qty Number

Insp. Stamp

140

Skidtubes Skidtubes

Memo

1-Open float bag holes as per dwg 2-C'sink float bag holes as per dwg

3- Prepare tube for welding

4-Bond web in place as per Dwg D3391 & QSI 015.

Adhere for 12 hours) A/R Sikaflex exp: 12/

150

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

1 0 BE 1/08/31

Skidtubes

Skidtubes

Memo

0.00

0.00

1-Weld crossbolt spacer as per dwg D3391 & QSI 004

2-grind weld flush

1 8 BE11/08/31

160

Skidtubes

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W/O:			WORK ORDER CHANGES							3 %		
DATE	STEP	PRO	PROCEDURE CHANGE				Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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NCR:			WORK ORDER NON-CONFORMANCE (NCR)									
DATE	STEP	Description of NC Section A	Corrective Action Initial Action Descr		cription	Sign &		cation on C	Approval Chief Eng	Approval QC inspector		
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Work Order ID 73035

Wednesday, August 24, 2011 2:23:49 PM



Page 5

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

8/24/2011

Start Qty: 1.00

Req'd Qty: 1.00 Required Date: 8/31/2011



Date:

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

SPC (Y/N):

Date:

Tool ID

Date:

Run

Start

Stop



Sequence ID/ Work Center ID

Quality Control

Operation -Description

QC10- Inspect visual per QSI004- ground welds

Set Up/ **Run Hours**

0.00

Duloglo1

Code

Tool # Plan

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

170

180

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

0.00

X uloglo1

185

Hand Finishing

HandFinish

Pressure Wash per QSI005 4.3

Memo

Memo

Memo

AND REALODINE AS PER PAR09-043

0.00

0.00

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W/O:		<u> </u>	W	ORK ORDER CHA	ANGES					• •
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Resolution:			Disposit	ion:	QA: N	/C Clos	sed:		Date: _	
NCR:		•	WORK OR	DER NON-CONFO	RMANCE (NCR)				
DATE	STEP	Description of NC		Corrective Action	Section B		Verific	ification	Approval	Approval
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Work Order	ID	73035
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Wednesday, August 24, 2011 2:23:49 PM



Page 6

Item ID:

D3391-023

Accept

Setup Start

Revision ID:

Start Date:

Item Name:

Mid Tube Assembly

8/24/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start

Stop



Required Date: 8/31/2011

OC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/

Work Center ID

Operation Description

0.00

Set Up/ **Run Hours** Tool ID

Tool # Plan Code

Accept Qty

Reject Reject Qty Number

Insp. Stamp

190

Powdercoat

Powder Coating

START TIME: OVEN TEMPERATURE:

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

FINISH TIME:

200

OC

Quality Control

QC3- Inspect Part Finish

Memo

0.00

0.00

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W/O:			WO	RK ORDER CHANG	ES	- -			3 Y		
DATE	STEP	PRO	OCEDURE CHAN	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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NCR:		,	WORK ORDE	R NON-CONFORMA	NCE (NC	R)		·			
DATE	STEP Description of NC Section A	Description of NC			on B	Verification		Verificat		Approval	Approval
		Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date		Section C	Chief Eng	QC Inspector		
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Work Order ID 73035

Wednesday, August 24, 2011 2:23:49 PM



Page 7

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Required Date: 8/31/2011

Mid Tube Assembly

8/24/2011

Start Qty: 1.00

Req'd Qty: 1.00

Cust Item ID:

Customer:

Tool ID

Reference:

Start Date:

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Α	nn	rova	ils:	

Process Plan: ____

Date:

Tooling:

0.00

Date:

Run

Start



Date:

SPC (Y/N):

Date:

Stop

Sequence ID/ **Work Center ID**

210



Skidtubes

Skidtubes

Operation Description

Set Up/ **Run Hours**

Tool # Plan

Code

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

Skidtubes

Memo

1- insert D3391-021 into D3391-23

2- insert T-pins into first and third fwd saddle holes

3- ON FIRST SIDE ONLY drill out 2nd and forth fwd saddles holes to 0.500" as per DSI 9364

4- remove T-pins and locate 2T9415 from first and third crossbolt hole using Tpins and clekos

5- ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to 0.499". Remove DT9415

6- deburr, re-alodine and blow out chips

7- press fit D3591-1 spacers using DT9416 starting from 0.500" side

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

220

QC

Quality Control

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W/O:			WORK ORDER CHANGES							
DATE	STEP	PRO	PROCEDURE CHANGE			Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQA	4 :	_ Date: _		
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NCR:		,	WORK ORD	ER NON-CONFORMA	NCE (NCR)				
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		Section A	Initial Chief Eng	Action Description Chief Eng	Date	Section	on C	Chief Eng	QC inspector	
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Work Order ID 73035

Wednesday, August 24, 2011 2:23:49 PM



Page 8

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Mid Tube Assembly **Item Name:**

Required Date: 8/31/2011

Cust Item-ID:

Start Date: 8/24/2011

Start Qty: 1.00 Req'd Qty: 1.00

Customer:

Reference:

Process Plan:

Date: Tooling:

Date:

Run

Start



Date: _____

SPC (Y/N):

Date:

Stop

Sequence ID/ **Work Center ID**

230

HandFinish

Hand Finishing

Operation Description

Memo

-Install Inserts as per Dwg

Set Up/ **Run Hours**

0.00

0.00

Tool ID

Tool # Plan Code Accept Qty

Reject Qty

Reject Number

Insp. Stamp

240

Quality Control

HandFinishing

QC5- Inspect part completeness to step on W/O

0.00

5 nlvaloa

Memo

Packaging Packaging

250

Identify as per dwg & Stock Location:

Memo

0.00

0.00

W/O: 13	3035	WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
1109/02	230	Assemble with: (1x) D3561.5/B73330 WERRPLATE (1x) D3566.5/B73330 WERRPLATE (1x) D3566.5/B73328.7/MII8357 WASHES	गा	Vlogloz	X1 X12 X12	No. 25	$\int_{\ell^{\prime}}$	
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Part No:		PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
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DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C		Approval QC Inspector

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Wednesday, August 24, 2011 2:23:49 PM



Page 9

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date: Required Date: 8/31/2011

8/24/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

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Process Plan:

Date:

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Tooling:

Date:

Run

Start



QC:

SPC (Y/N):

Date:

Stop



Sequence ID/ **Work Center ID** Operation Description

QC21- Final Inspection - Work Order Release

Set Up/ Run Hours **Tool ID**

Tool # Plan

Accept Code Qty

Reject Qty

Reject Insp. Number Stamp

260

Quality Control

Memo

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DATE	STEP	Description of NC	Corrective Action Section B Initial Action Description Chief Eng Chief Eng			Sign & Verification Section C		Approval	Approval
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Picklist Print

Wednesday, August 24, 2011 2:23:55 PM

Work Order ID: 73035

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



KJ/EC□

EC

EC

 $EC \square$

Start Date: 8/24/2011

Required Date: 8/31/2011

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP A□05.10.20□New Issue□

IPP B□06.02.10□ECN773 dwg rev.D

IPP C 07.03.20 rev F dwg IPP D 07.03.28 re-format

IPP E 07.10.31 ecn 1053P

EC IPP Rev:F ECN 1056 07-11-13 DD

verified by: EC

IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev: I 08-11-13 Removed steps per w/o, QC KJ verified by: ec Rev:J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2500-1-100 Skidtube Extrusion		Manufactured	No			100	Each	76.0000	1	1			H,
				<u>Location</u> HALL	37065	Loc	<u>Otv</u> 76	Loc Code					11/08/29
D3:91-021 Fwd Tube Assembly		Manufactured	No		50251	100	75 Each	0.0000	1	1 l	_ 		ş [×]
D3389-1		Manufactured	No			140	Each	7.0000	1				B 11/2 12
				<u>Location</u>		Loc	<u>Qty</u>	Loc Code					11/38/3

	Johago							•			
W/O:			WO	RK ORDER CHANG	ES						
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Insert

Required Date: 8/31/2011 Required Oty: 1.00

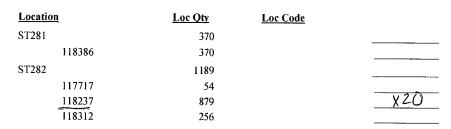
Wednesday, August 24, 2011 2:23:55 PM Work Order ID: 73035 Parent Item: D3391-023 Parent Item Name: Mid Tube Assembly D3681-1 No Manufactured 160 Each 65.0000 Spacer Location Loc Qty Loc Code LG 65 68958 2 69893 2 71845 61 Manufactured No 210 Each Bushing Location Loc Oty ST068 43 57350 66147 14 71847 28 ALS4-1032-130 Purchased No 230 Each

69893
71845
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210
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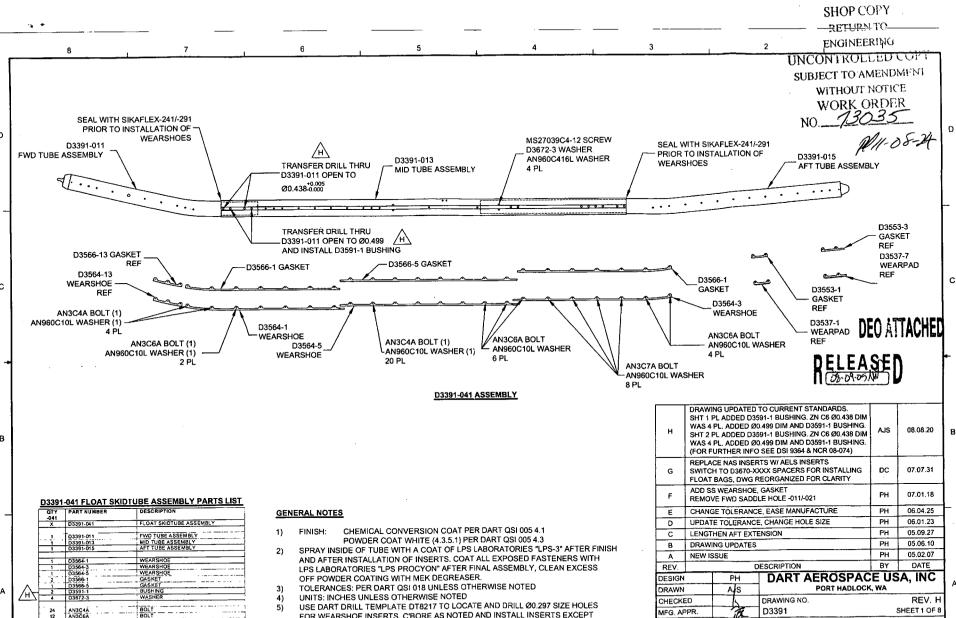
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Start Date: 8/24/2011

Start Qty: 1.00



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W/O:			WC	ORK ORDER CHANG	ES				
DATE	STEP	PRO	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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NCR:		·-	WORK ORD	ER NON-CONFORMA	NCE (NC	R)			
DATE	STEP	Description of NC	Corrective Action Section			Veri	ication	Approval	Approval
DAIL	SILF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Dat		ction C	Chief Eng	QC Inspector



WHERE INDICATED.

DATE

MFG. APPR.

APPROVED

DE APPR

FOR WEARSHOE INSERTS, C'BORE AS NOTED AND INSTALL INSERTS EXCEPT

08.08.20

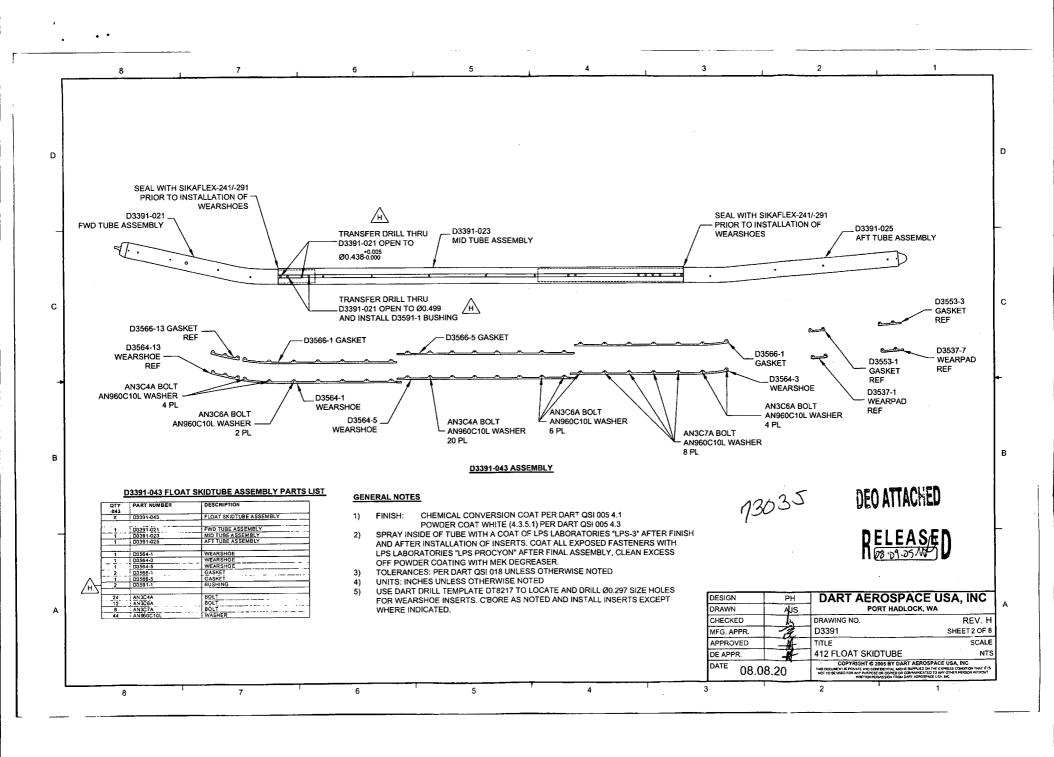
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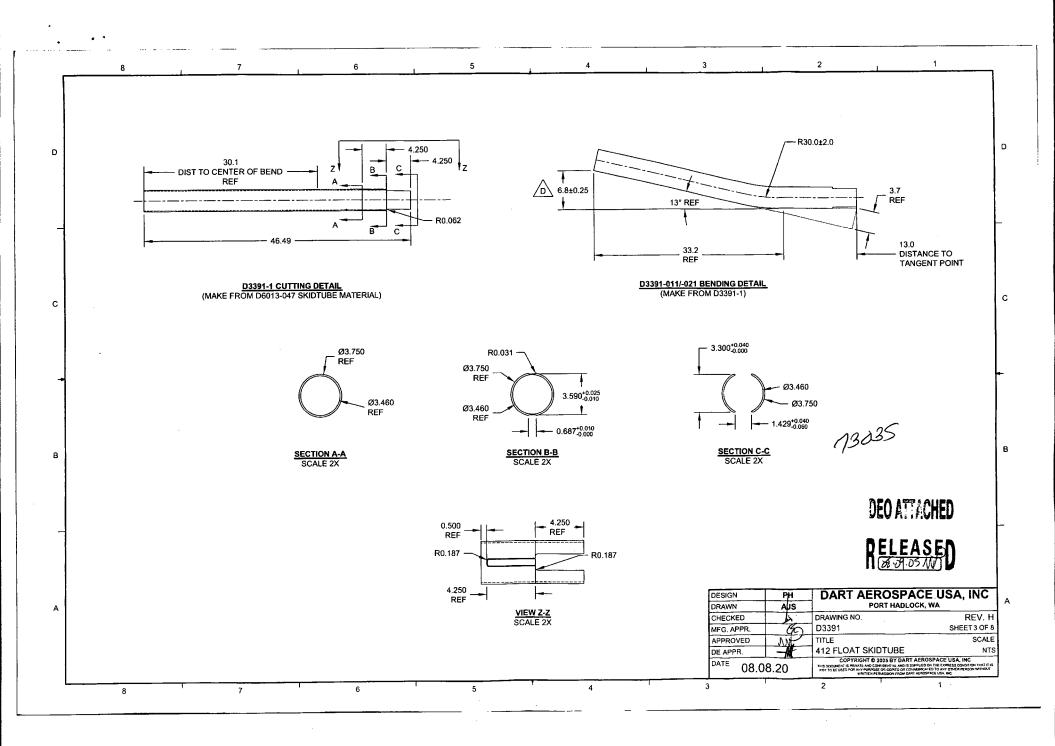
412 FLOAT SKIDTUBE

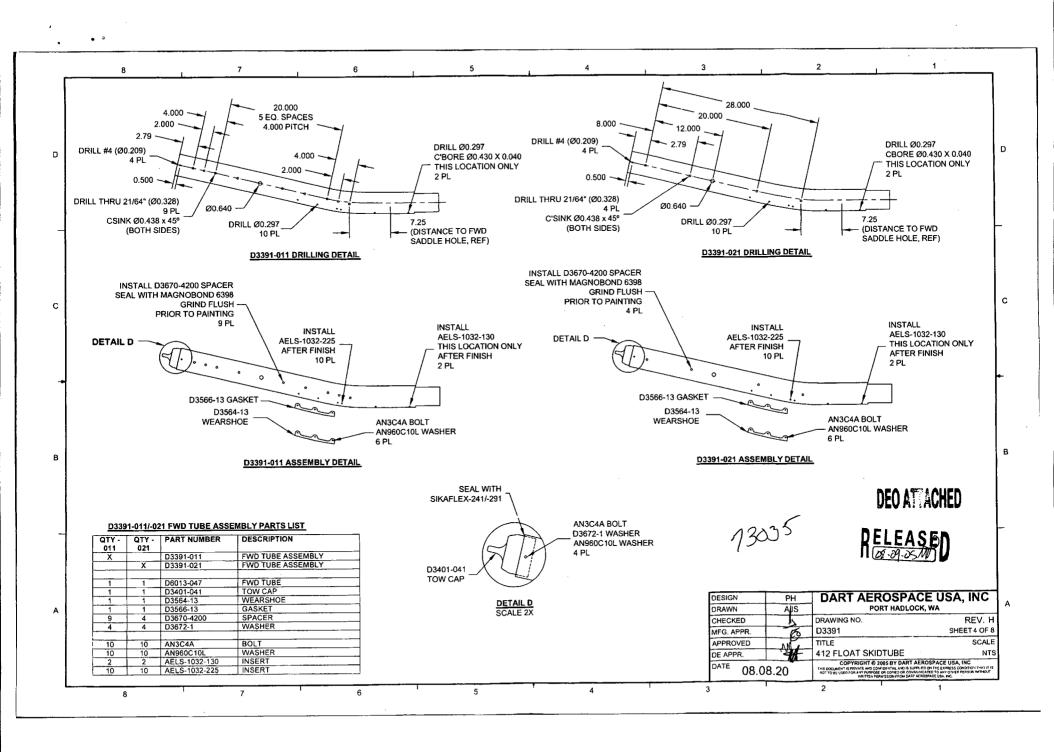
NTS COPYRIGHT @ 2005 BY DART AEROSPACE USA, INC

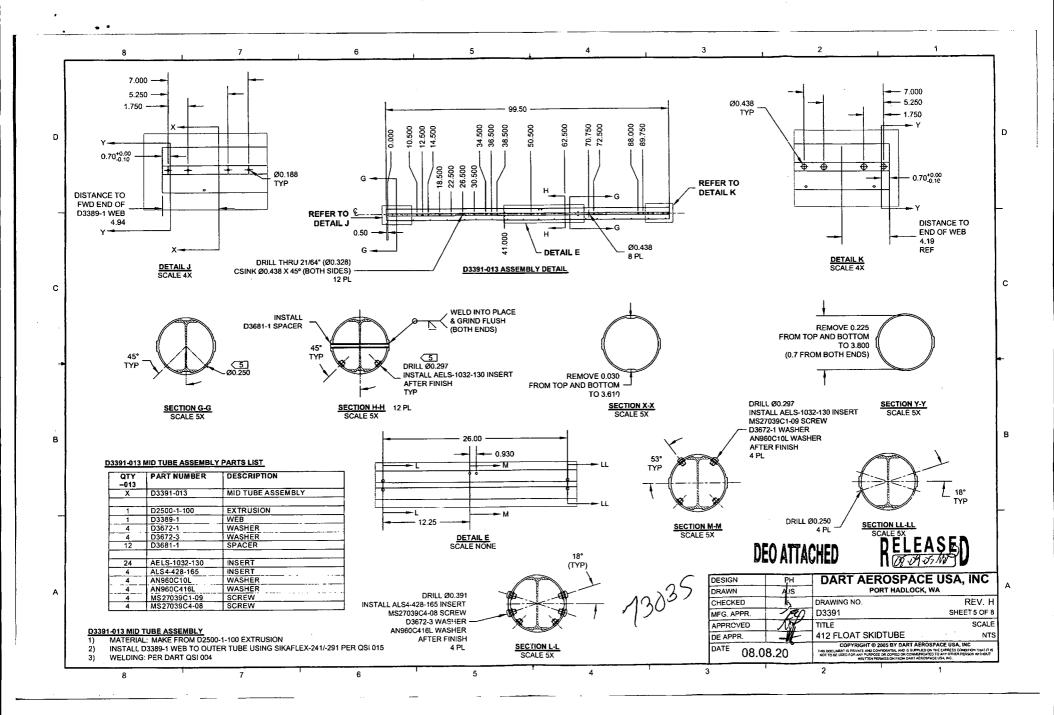
SHEET 1 OF 8

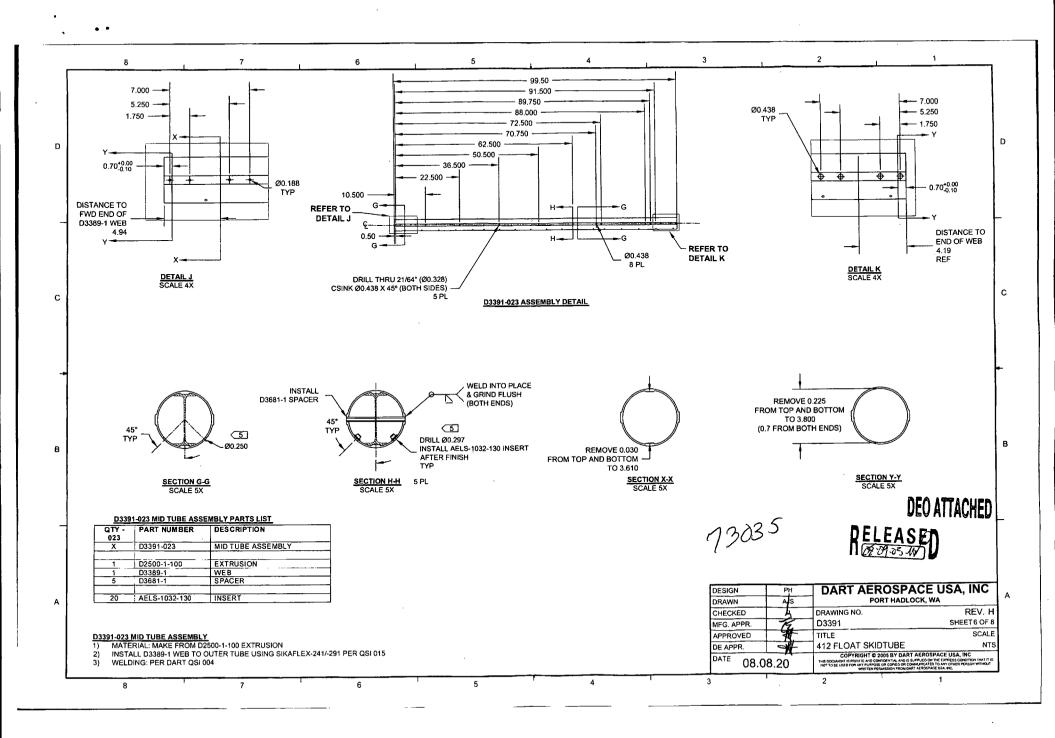
SCALE

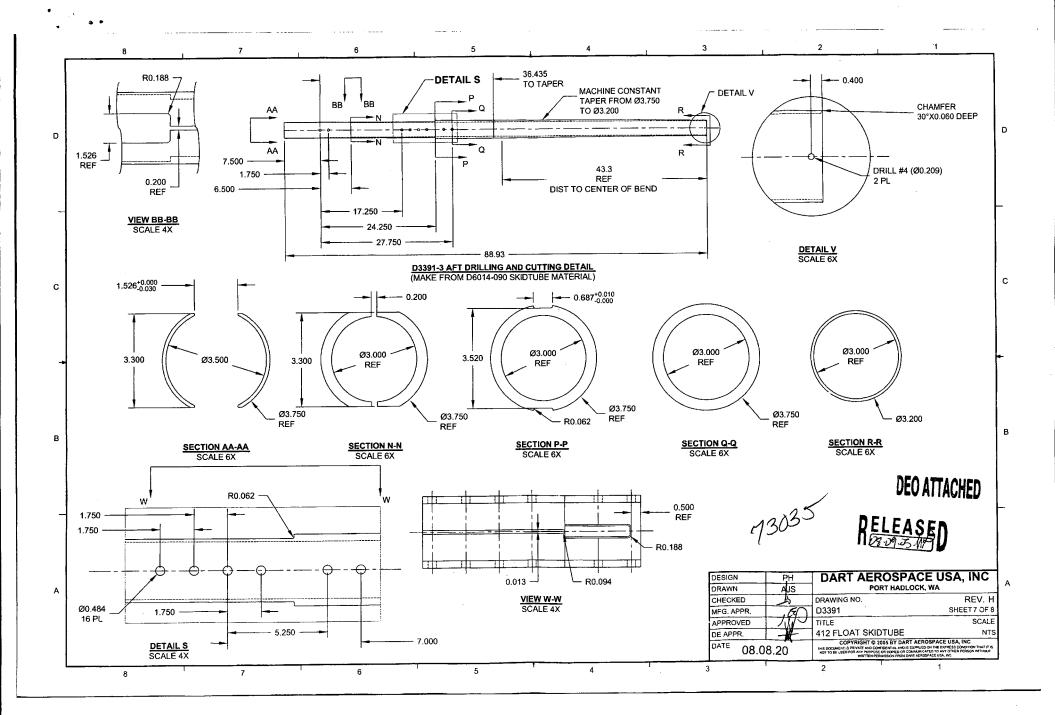


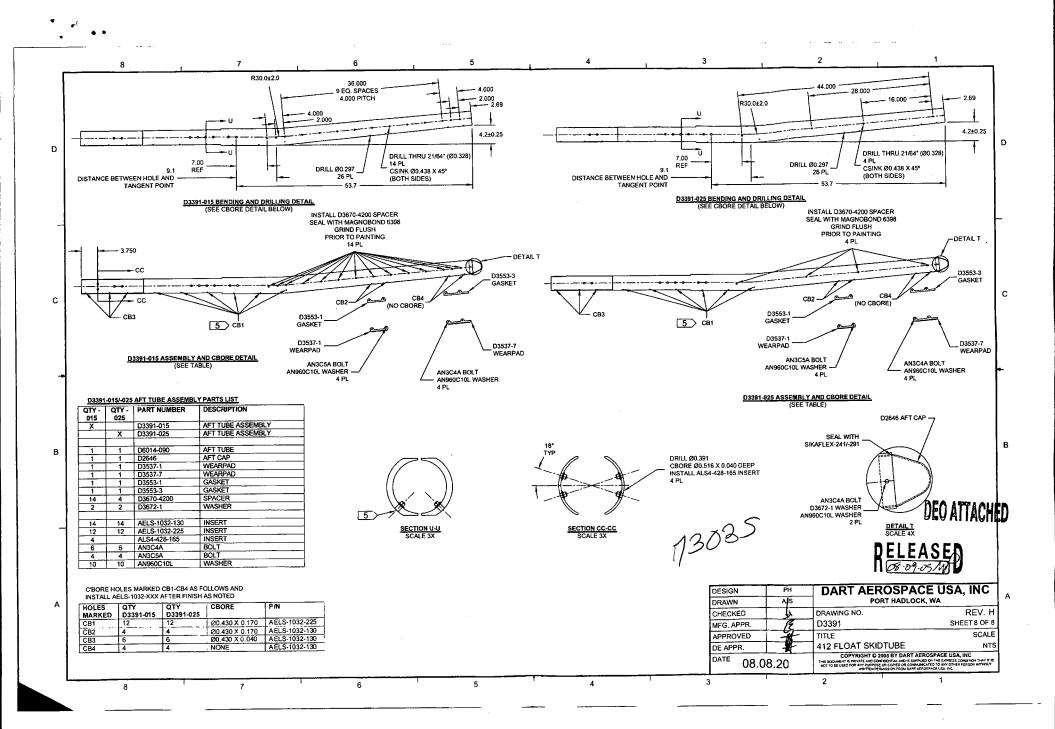












DRAWING	NO.	TITLE		REV. H	DART AEROSPACE US	A, INC D.E.O. NO.	SHEET NO.	SCALE
D3391		412 FLOAT S	KIDTUBE	1	ENGINEERING ORD		SHEET 1 OF 1	NTS
DRAWN	Ú.		CHECKED	4	MFG. APPR.	APPROVED MA	DE APPR.	
DATE	09.09	.23	DATE	04.04.24	DATE 09/09/25	DATE 09/09/30	DATE 09/09/3	9

PURPOSE:

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

CHANGE:

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS: COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

PELEASE 2010 -02- 0 2

13835

NO. 264

AWS D17.1.2001 QUALIFICATION TEST RECORD

Name: Barclay Sllight
Job number: 73035
Part number: 3391-023
Description: Mix Tuke
Welding Process: Aig[V] Mig[]
Base materiel: Clemine
Current: AC[X] DC[]
,

TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[V] fail[] pass[Y fail[]
<u>UNACCEPTABLE</u>	i mari i
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[V] fail[] pass[V] fail[] pass[V] fail[] pass[V] fail[] pass[V] fail[] pass[V] fail[]
Qualifier fort leeus Welder Burlay Eduots	Date of Test Coupon <u>//· DB· 3/</u> Date of Test Coupon <u>//· DB:3/</u>

The above named individual is qualified in accordance with AWS D17.1.2001 to weld

Dart Aerospace Ltd

Dart Ae	rospace L	.td							·			
W/O:			WO	RK ORDER CHANGE	S							
DATE	STEP	PRO	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
Part No	:	PAR #:	Fault Categ	jory:	NCR: Yes	No DQ	A :	Date: _				
Resolution:		Disposition	QA: N/C Cld	A: N/C Closed: Date:								
NCR:		•	WORK ORDER NON-CONFORMANCE (NCR)									
DATE	STEP	Description of NC	Corrective Action Section B			Verific	erification	Approval	Approval			
DAIL	Section A	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section	on C	Chief Eng	QC Inspector			
									# # #			
		•										
				,								